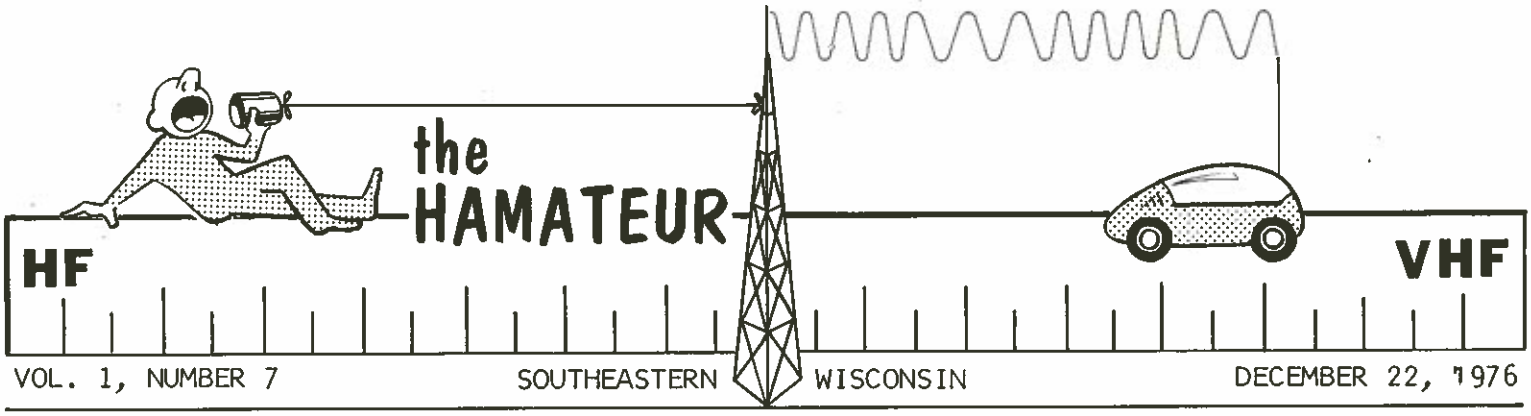


VOL. 1, NUMBER 7 SOUTHEASTERN WISCONSIN DECEMBER 22, 1976

This newsletter is published monthly for the benefit of the Radio Club in Southeastern Wisconsin. Reproduction, with credit given, is granted for any thing appearing within THE HAMATEUR. Publication dates are scheduled for the 28th of each month.

Editor: WA9JMO.....Larry McCalvy.....7453 W. Thurston Ct....Milw., Wis. 53218, 464-7449
Want Ads: W9AMM.....Don Habeck.....5973 Sugarbush La.....Greendale, Wis. 53129
Biography: WB9UES.....Pete Schreiber.....23613 - 60th St.....Salem, Wis. 53168
Technical Items: K9TBD.....Joel Elston.....4360 N. Wildwood Ave...Milw., Wis. 53211
Reporters:

25/85....WB9OJE...Jim Wierzba.....281-6766
07/67....WB9NNJ...Bob Fairman.....352-2656
31/91....WA9RYO...Al Bingenheimer...464-8488
6-MIC....WA9UXL...Art Acheson...645-6122
MRAC.....W9MDG....El Belanger...461-8272
Ozaukee..WA9BMA...Ed Bach.....285-3589

WA9 Just Mouthing Off

I would like to welcome aboard the 138 members of the Milwaukee Radio Amateur Club...the oldest continuous active radio group in the world. The Board of Directors approved and made the announcement at their annual old timers meeting held at the Pabst Blue Ribbon Hall on December 9, 1976.

From the positive feedback I have received via the airways and the eyeball QSO's, our members in general enjoy what our paper has offered. The only dark cloud came from Stu, W9HI. He wanted to know where the centerfold was. I think that qualifies Stu for the dirty old man of the month award.

Please note a correction in the two meter direction finding antenna article that appeared in last month's Hamateur The length of the original piece of RG-8 coax should be 38½ inches instead of 19½ inches. Although both should work with slight modifications. If you have tried this antenna, I'd like to know your results.

73's WA9JMO

CLUB News

M·R·A·C

The MRAC's annual Old Timers Nite was held Thursday December 9, 1976, at the Pabst Hall in Milwaukee. Kick-off was somewhere around 7:30 P.M. until we got kicked out at 11:00 P.M. The 807's flowed freely topped only by the fine conversations around each table. I had the pleasure of meeting in person many of the members I've talked to on the air as well as many others for the first time. I enjoyed myself to the fullest while the night moved all too quickly.

Some of the highlights were the introduction of many of the past presidents. From the current Elden Belanger, W9MDG, to the earliest attending. Herb Wareing, W9NY, the year was 1922. Another focal point was the awarding of life memberships, those who have been a member for 20 years. Dick Scarvaci, K9CAN, was the first son of a life member to achieve this distinction. Congratulations!

The reporter for the MRAC group for the time being is Elden Belanger, W9MDG. Please contact him for all related material you may wish to see appear in this publication.

The next meeting of the MRAC will be Thursday, January 13, 1977, at MSOE, 1020 N. Broadway, Room B-5, 7:30 P.M.

73's Larry McCalvy, WA9JMO

3940 O. C. R. C. 37·97

The Ozaukee County Radio Club has been around in one form or another since 1961. It has always tried to be all things for all members. 3940 KHZ was adopted as the club net frequency from the start. In 1967 the club settled upon 146.55 MHZ as the Ozaukee County Simplex FM frequency. In March of 1972 the club repeater project got underway. By December of 1975 the repeater project had become a tail that was wagging the dog. The club was reorganized to permit the repeater project to be essentially self-governing and self-financed with accountability to the club generally. 1977 will be the first year that the new organization will be in full effect. So far it has seemed to work well. The regular club meetings get the benefit of a regular repeater report, and the Repeater Group solves its own (many) problems.

The Ozaukee Radio Club meets on the second Wednesday of every month at the Cedarburg Civilian Defense Control Center, 523 N. Mequon Road, Cedarburg. The Repeater Group meets on the fourth Wednesday of every month at the same location. For those not that familiar with that city, the location could be described as across the river from Barth's Saloon, and in the basement on the north side of the power plant. All interested are welcome at the meetings. The regular members are reminded that all memberships expire on December 31; and if dues are not paid by the February meeting, their names will be automatically stricken from the membership role. Dues for 1977 are: Regular - $5.00; Student - $1.00; and Repeater - $4.00. It is anticipated that many of the Regular and Student members will also become Repeater members. Those who are not particularly interested in becoming active with the Club but are interested in using 37/97 are urged to become Repeater members. New Regular members are also required to pay a one-time $5.00 initiation fee. Dues may be paid in person at any Regular meeting, or by mail to P.O. Box 13, Port Washington, Wis. 53074.

CHRISTMAS FOR IRON IRVING (146.37/146.97)

The first time I met Iron Irving was during a bitterly premature winter evening's cold in December, 1974. I was called in to render a second opinion concerning what appeared to be a very sick repeater.

"Hello, Doc." Irving greeted me excitedly, flashing all his status lights, which gave him a distinctly green tinge in the fading twilight. It was obvious he was happy to see me. "I'm glad you could come. I don't get many visitors up here at the waterworks." Irving's inverter purred, a nominally innocuous sound which was amplified to surprising volume by the sounding board of his seven foot relay fram. Then Irving added hopefully: "I think it's my battery."

"The Forms," I stated authoritatively. I must be sure to establish the correct Doctor/Patient relationship, I thought.

"What?"

"The Forms. We can't do anything until we've completed the forms. Now, name please?"

Irving looked wounded. "WA9AAE. But I...."

"Address?"

"Cedarburg, Wisconsin."

"Frequency?"

"39/79, except when I drift a little, like now when it's cold in here." Irving's discriminator meter flicked accusingly, and I thought I heard a shiver.

"I see. Who was your manufacturer, please?"

Irving huffed. "I am completely home-brew, built from salvaged and scavenged parts, assembled with love. I have a Motorola transplant of the transmitter and receiver." He showed me his scar. "I only use two tubes," Irving added, proudly.

"Two what?" At that time, I was not used to Irving's shameless use of non-medical component terminology.

"Tubes, electric valves, fire bottles. But all my logic is solid state." And then he added, confidentially, "Although lately some of the members are saying my logic is solid mistake."

I thought I heard a distinct sigh.

"And I must say that lately I have not been feeling very logical. My three minute timer has been cutting everyone off at 2.4 minutes, and then, by way of insult, gives them the raspberry in CW. When we lose the commercial electricity, and I switch to emergency battery power, I'm supposed to put a beep on the transmit audio every 10 seconds to tell everyone to restrict use to emergency messages. But lately, I just don't seem to have the energy."

"O.K.," I said, putting away by clipboard. "Let me take your output power." I put the Bird in the line. "Hm, 30 watts. That looks O.K. But what's this empty space in your rack?"

"That's where the autopatch goes," and Irving added dreamily, "won't it be wonderful to talk to everyone on the telephone? They're such friendly, happy messages, especially this time of year." Irving blinked all his lights in anticipation.

I winced at the reference to the impending holidays and, feeling a little Scroogish, I said, "Open up now, I want to have a look at your cavities."

Silence.

I adjusted the control link. "Irving, you shouldn't get so excited. You just put yourself on tone access." I was aware that my professional demeanor had all but disappeared.

"Sorry." It was the "sorry" of a little kid who spills milk to get attention. "It must be the low voltage."

"I'll check the battery in a minutes," I said. "Now, have you noticed any pain in the antenna?"

"Well, I seem to hear better to the north than the south, although I understand that I was designed that way. If I strain my ears, I can pick up Milwaukee County pretty good. I get all of Ozaukee, most of Washington, and part of Sheboygan Counties too. When I get my new receive sites in Grafton and Cascade, I should hear these areas even better. That is, I will if people use me. Lately, it's been kinda quiet."

I checked the water in the battery. "I see what the trouble is," I said diagnostically.

"What is it, Doc? The battery? An IC? Let me have it straight. I can take it."

"It's nothing like that. It's much more fundamental than a mere battery. Much more important than any IC." I closed my bag and hitched my parka.

"For God's sake, Doc, tell me!"

"You're lonely."

It has been quite a while since that first night, and Irving still has not completely recovered from the case of desense hiccups he contracted after my revelation. Only time will tell whether my prescription will be successful. In the meantime, Ralph, WA9UDZ, repeater trustee, and Russ, WB9PAS, repeater group vice-president, urgently invite new members to pay their $4.00 per year and meet us in the Cedarburg bomb shelter on the fourth Wednesday every other month beginning in January. Remember, Iron Irving's health is at stake.

73 Ralph, WA9UDZ

LATE NEWS FROM OZAUKEE

The annual Post Xmas-PreValentines Party will be held Saturday night, January 22, 1977, at the Grafton Hotel. John, WB9OHY, made the arrangements and absolutely guarantees that everyone will have a helluva good time. All club members are invited. Make all complaints to WB9OHY.

There is an underground movement afoot to attempt to appropriate WGLB's phased verticals for a little experiment on 160 meters. At 1560 KHZ this system is not that far away from lower segment. The array is pointed south by west. After all, they don't use it at night anyway.

The word is out that Barry WB9SFK is the proud owner of a spanking new Kenwood TSA 520. Rumor has it that he has the XYL and Harmonics out pumping gas in an effort to plug the hole the acquisition made in the family budget.

Congratulations are in order to Jeff WA9USA/NNNØLSK on receiving a 2nd Class Navy-Marine Corp Operator's Certificate in recognition of his acknowledged expertise and devotion to the cause. Jeff modestly states, "It's nothing." Well, if you say so Jeff.....

37/97 has been set upon by a "turkey call" type of squeal from time to time. After much investigation, it was discovered that there was a high degree of correlation between the problems on 37/97 and activity on 07/67. Now it seem that 07/67 also brings up 22/82. There is no truth to the rumor that the Ozaukee Repeater Group is trying to locate a functional air-to-ground missile to fix the problem. In the meantime, tone access seems to be one solution.

The next club meeting will be January 8, 1977...always on a Wednesday. Election of officers will be the main order of business. No club can make it without those who are ready to pull their weight. One of the best ways you can do this is to serve on the Board. 73 Ed, WA9BMA

31·91 MRC 31·91

JANUARY MEETING SCHEDULED The annual meeting of MRC will be held Thursday, January 13, at Nino's on Port Washington Road, at 8:00 P.M. Elections, free beer and snacks as well as a guest speaker will be featured.

ROSTER COMPLETED The pocket size membership roster was completed and mailed to members of record as of Dec. 6.

AMPLIFIER REPAIRED The mysterious fuse blowing activity has apparently been cleared up with the replacement of some poorly insulated wires in the amplifier. The amplifier has been on line now for a month without any problems.

NEW MEMBERSHIP COMMITTEE Don Habeck, W9AMM, is now in charge of the membership committee for MRC. Don is sending invitation letters to new users of WR9ABM.

FOX HUNTERS Two meter transmitter hunts have been poorly attended in the past, and Wisconsin winters are not conducive to mobile hunts. So how about this suggestion....Base stations form teams and attempt to pinpoint a "fox" which is transmitting within the county. Team members would use any means to locate the "fox" such as triangulation fixes and relative signal strength readings. The team that comes closest in straight line distance in the shortest time wins. Teams take turns with several "foxes". More discussion would be welcome at the January meeting.

1976 ON WR9ABM In review, the Bicentennial brought the following to MRC: 200 members; 3,497 hours on the air time; W9CUZ receives honorary membership (televised by WITI TV); hot rigs become a headache for all; summertime DX from NY, PA, Ontario, IA, MN, MI, IN and northern vacation spots. Al, WA9RYO

07·67 SANTA CLAUS NET ON 07/67 REPEATER DEC. 24 07·67

The Milwaukee County AREC will again visit young patients in hospitals on Christmas Eve so that they may "talk to Santa" as he travels from the North Pole to Milwaukee. This year we will be using the repeater and will greatly expand our Santa operation to reach more children in more hospitals in the area.

After completing all contacts with the children in the hospitals, the net will then handle traffic from any ham radio station that may have children at their QTH who want to "talk to Santa".

The net starts at 3:30 P.M. and will run to approximately 7:00 P.M. on Friday, Dec. 24. Net control operations (under the direction of Rees Roberts, K9UUT, Assistant EC for Special Assignments), will be set up at the Milwaukee County Sheriff Dept. Communication Center at the Safety Building in downtown Milwaukee.

Special "progress reports" on Santa's trip will be issued (you can follow along by referring to a radio Great Circle map). Other "important bulletins" will be reported periodically, such as: landing conditions for Santa in Milwaukee; the number of cookies and sugar cubes available for Santa and the reindeer; weather conditions along Santa's route; number of children who have been naughty and nice, etc. Milwaukee County Sheriff Michael Wolke will personally make some of these announcements on our net.

Santa Claus will be portrayed by Jack Lee, a well known local radio personality who has done a "Santa Talks With Kids" program for the last six years on a Milwaukee radio station. (Jack Lee is now General Manager of WEMP/WNUW and will be doing that show from 2:00 to 3:00 P.M. on WEMP, then joining us at 3:30 at the Sheriff's Dept.)

The net will be a directed net and strict net discipline will be required. Only stations with emergency traffic should break into the net. Since we do not know how much traffic will have to be handled during the 3½ hours, we ask that those stations checking in keep the children's conversations with Santa as short as possible.

Merry Christmas from the Milwaukee County AREC WB9NNJ, Bob

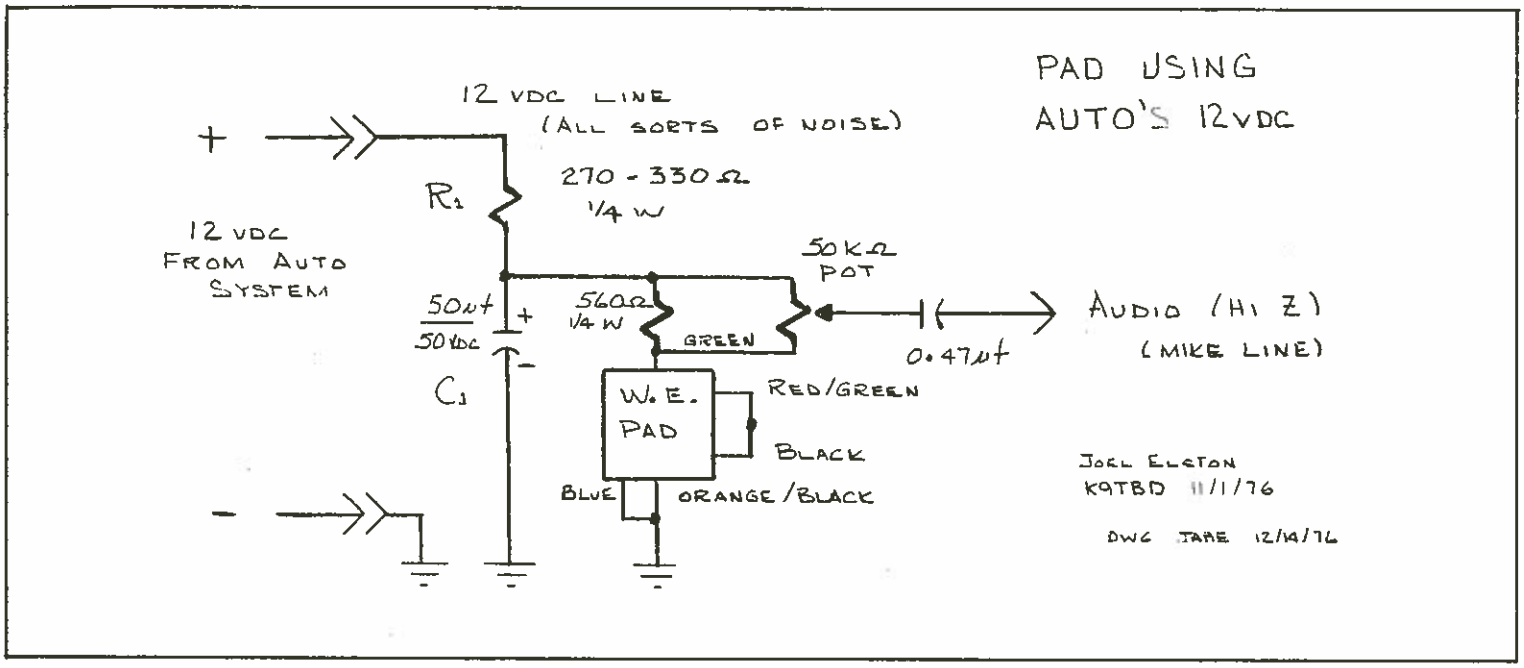
Our November meeting combined our annual Christmas and Thanksgiving party with a short business meeting. The Club voted to support the newsletter on a permanent basis. The original commitment was for six months.
We had free beer and snacks for all, as well as a few surprise gifts for a select few. Dave WB9JCX received a coloring book and crayons to occupy his time while his radio gear is being repaired. Jim, WB9OJE, walked away with a log book and box labeled "Dumb things to do". Bud, W9HIF, (House of Ill Fame) who was missing, picked up a set of red light bulbs, gift wrapped, the following day. Lee, WA9AOE, was presented with a book titled "30 Days to a More Powerful Vocabulary". Dave, WB9SAM, received the Missing Station Award: A Wisconsin license plate "SAM" so he can remember his call and get on the air. Paul, W9KHO, walked away with the Mother of the Year award: a pair of small yellow children's scissors to cut off retarded CBers. Tom, AB9CSK, won the Honky Entertainment Award: a wad of play money. Now Tom can't complain he doesn't have any.
Our January meeting is scheduled for Tuesday, January 18, 1977, at the Ramada Steak Knife, 117th and Bluemound, 7:30 P.M. sharp. Nomination of club officers will take place.
Our February meeting will be at Schlitz's Brown Bottle, the third Tuesday of the month, 221 W. Galena St. Free beer and election of officers scheduled for that night. Fenced-in parking with a guard is provided between 3rd and 4th streets on the north side of Galena. All are invited to attend Jim Wierzba, WB9OJE

SIX METER INTEREST CLUB The December meeting of the 6 MIC Club was held on December 3, 1976. Many subjects were covered including the AWAS Award, the annual auction to be held in March, the 6 Meter QSO party to be held the 19th of December. Also covered were the questions of dues and future Novice classes.
It was decided by a vote of the members present that the yearly dues of the club would be increased from the present $3.00 to $5.00. Dues cover club member and XYL.
The January meeting will be held on January 7, 1977, at the QTH of WB9RSK. Jim's address is 542 E. Van Beck Ave., Milwaukee. Meeting time is 7:30 P.M. All members are urged to attend. A point to keep in mind is that the activities and programs of the club are decided upon by the vote of the members present at the meetings. If you do not attend, then you cannot vote.
HELP WANTED The 6 MIC Club will be forming a new Novice class soon. There is a need for instructors in electronics basics. Any volunteers??? Please contact Sheldon, WB9SJQ, your activities chairman.
Since this is the last issue of THE HAMATEUR for 1976, it is time for a few reflections on the year now ending. Our club has had some notable accomplishments this year. We have our newsletter of course. I think that this has been one of the really outstanding events of the year. Larry, WA9JMO, our Editor, deserves a lot of praise for the great job that he has done. Please keep up the good work, Larry. A thank-you to the people who have spent their time in helping Larry putting out the newsletter: typing, sorting, mailing and etc...is also in order.
As of December 1 the AM Net changed its operating time from 6:00 P.M. to 9:00 P.M. local time. Participation seems to be on the increase. Now you can eat dinner before checking in. We hope that this time will be more convenient for everyone.
On the 19th of December we will be holding our first 6 Meter QSO party. Dust off your 6 Meter Rigs and get ready! I will be running my AM Rig and am looking for lots of company. If half of the 6 Meter Beams you see around Milwaukee are put to use, we should have a ball. Maybe I'll warm up the old Lincoln Transceiver at 5 Watts for the extra points for QRP! If the first party works out, there will be more.
Our first Novice class has been completed and we have some would-be Novices anxiously awaiting their test results Next month we should be listing some new calls!
Code practice is now being held five nights a week on Net Frequency, 50.31 Mhz at 7:00 P.M. local time. We have a small but dedicated group checking in. If you need some practice, come on and sit in. Check in if possible. Your club reporter has spent some time in these newsletters making noises about participation on the Nets and meetings. We need all the help and participation we can get.
All in all, not a bad year. There are many other items that could be mentioned, but at least we mentioned a few of the highlights. Please note that the 6 MIC Club now has a P.O. Box. It is: P.O. Box 13404, Wauwatosa, Wis, 53213. How about some reports on Station Activities. Let me know what you are doing....projects, communicating, etc. Club members ARE interested in what YOU are doing. Drop me a note at my QTH or to the Club P.O. Box. Remember that 6 MIC will be holding an auction in March. Dust off all the good junk and save your pennies. The auction will be open to everyone. So pass the word!
As final note for 1976, I would like to wish everyone reading this column a *Joyous and Merry Christmas* and a *Prosperous New Year* from all of us at the QTH of WA9UXL. 73's and 88's Art, WA9UXL

Technical Topics

AUTOPATCH USING AUTO'S 12VDC

One of the objections to installing a touch-tone pad in your car is that alternator whine and other ignition noises come through to your audio line. A way to correct that problem is to install a 9V or 2 - 9v batteries in the pad. This costs and batteries eventually run down and require replacement. In order to run the pad from your 12V auto supply try this:

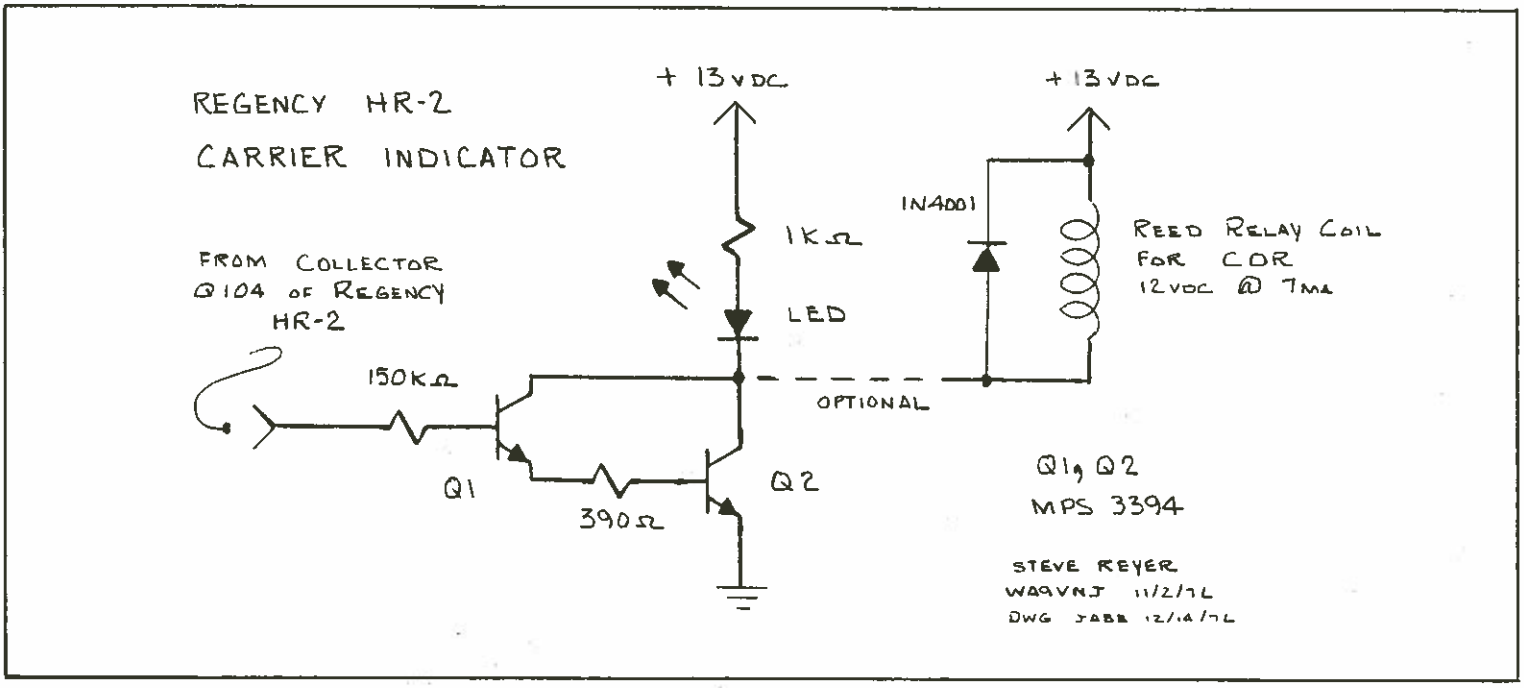


The R_1, C_1 filters any garbage on the raw 12VDC line and provide good clean supply for the pad....thus audio is clean. (I was able to install R_1, C_1 in my Motorola T-Power control Head) 73's Joel, K9TBD

REGENCY HR-2 CARRIER INDICATOR

One device which many common 2-meter rigs lack is some method for determining if a channel is in use. In mobile operation it is particularly hard to distinguish the "sound" of a squelched receiver from that of a perfectly quieting signal. A carrier indicator in the form of an S-meter or at least a light is a nice feature. I used the simple circuit shown to add a carrier indicator to my much-modified Regency HR-2.

Any "garden variety" NPN transistors will do the job; I happened to have a pair of Motorola MPS 3394's in the junk box. I used the 390 ohm resistor to cut the gain of what otherwise would be a darlington pair in order to stop a self-oscillation which developed. The 13 volts can be found on the back of the on-off switch, ground is the chassis and the collector of Q104 is on the receiver board beneath the T-R relay. This point may be a challenge to find. One nice advantage of the circuit is that it can drive a sensitive reed relay to act as a carrier operated relay (COR).



THE 5 ELEMENT CURTAIN ROD YAGI FOR 2

It's a shame to have to spend hard earned cash for antennae. This time I was faced with the problem of developing some selectivity and gain, i.e. trying to talk to Grand Rapids or Chicago (16/76) but not both at the same time as with the omni-directional Ringo.
The tests that were made were mostly with the discriminators affixed to each side of my head. Some considerations were taken into account to reduce the effects of the natural lobes on these discriminators.
The construction was very simple and cheap:

QTY	DESCRIPTION
1	coil of #8 galvanized iron clothesline wire (about 4¢ ft)
1	slightly used iron curtain rod (about 5½ feet)
1	chunk of broom stick
1	short piece of coax braid
1	3-30 pf compression trimmer (20¢ at Grey's Lake)
1	glob of RTV (silicon bathtub caulk)

CONSTRUCTION DETAILS

ELEMENTS - (see fig #1) - with work gloves on, straighten sections of the galvanized wire and cut lengths indicated. (Nick wire w/dykes and work until it snaps) Grind the ends of the elements free of sharp edges.
BOOM - drill clearance holes in the boom as indicated. (Center punch first) Wire brush any paint or finish away from the area surrounding the holes.
ASSY - (1) Place the elements on the boom wrapping small pieces of copper wire at each boom/element junction to hold elements in place. (Be sure to get the elements in the right places)

(2) Solder the elements in place on the boom - you probably will have to use acid core or flux and a hand torch 'cause curtain rods are hard to wet.

(3) Form one end of the trimmer into a loop and solder to a 6" piece of the galvanized wire forming part of the gamma match. (See fig #2) Drill clearance holes in a dowel and with a rat-tail file shape a cove at one of the holes - the cove should fit nicely onto the boom.

(4) Slip the dowel onto one end of the driven element with the cove facing the boom. Slip the trimmer/rod assembly into the other hole of the dowel with the screw of the trimmer facing the back of the beam. (This will minimize body capacitance when tweeking) Glue the trimmer to the dowel and the dowel to the boom with RTV after slipping a chunk of coax braid on the other end of the gamma match to hold things in place. Set aside until everything is dry.

(5) Solder your 50 ohm coax transmission line's braid to the boom or adjacent to the boom on the other side of the driven element and solder the center conductor of the coax to the top of the trimmer capacitor. Tape the coax to the boom and spray paint the boom to keep it from rusting.

TUNING

Put your newly assembled beam on a pole. Orient the beam either vertically or horizontally as you wish to use it. Get an SWR meter or Watt meter. Tweek the trimmer and slide the shorting strap back and forth for minimum SWR or maximum power. You should be able to achieve 1:1 SWR. Solder the shorting bar in place and pot the trimmer with RTV. You're all set to go on the air with a hot antenna.

73's Joel Elston, K9TBD

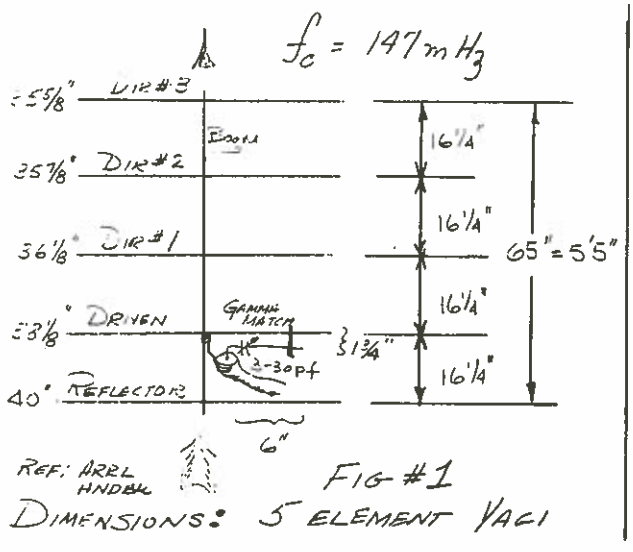


FIG #1
DIMENSIONS: 5 ELEMENT YAGI

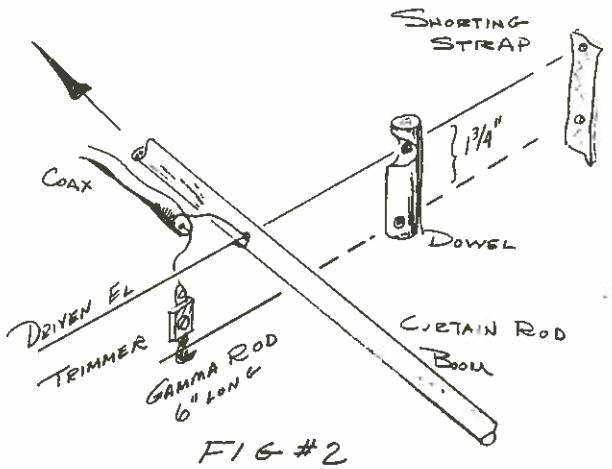


FIG #2
GAMMA MATCH DETAIL

Classified Ads

Until further notice, non commercial ads will be accepted and published FREE for all newsletter readers. Closing date for ads is the 8th of the publication month. Direct ad copy and related correspondence to: Don Habeck W9AMM, 5973 Sugarbush Ln, Greendale, WI. 53129 421-1245

FOR SALE: Drake TR-22 w/11 prs. of crystals and Drake AA10 10-watt amplifier; complete package, $220. Contact Al, WA9RYO, 3635 N. 80 St. Milwaukee, 53222 464-8488

FOR SALE: Clegg FM-27B 2 mts rig, latest model, mint condition; $275 Contact Roger Moore, K9VWR or Dorothy, K9BBL, Lark Ave, Rte 4, Hartford, 53027 673-3901

FOR SALE: Hammarlund FM-50A 2 mtr rig (6, 12 VDC; 117 VAC) with crystals for 146.94 Simplex and power cord; $50. Contact Ken, K9BKJ, 6912 W. Layton, Greenfield, 53220 282-1244 (5-6 P.M.)

FOR SALE: Swan Sygnet 270B, 5-band, 12VDC or 117VAC, mint condition; $300. (Estate of W9WYK) Contact Mrs. Hueblein, Waterford, 534-2577

FOR SALE: Johnson KW Matchbox w/built-in SWR bridge; $200. Contact Jonesy, WB9RMD, 3627 W. Hope Ave, Milw 53216 442-0358

FOR SALE: Multi-Elmac Model AF-68, 80 thru 6, AM-CW, VFO, complete with M1070 pwr supply (6, 12 VDC; 117 VAC); $60 or make offer. Clegg FM-27A 2-mtr rig; $200. Contact Don, K9SHJ, 5969 Sugarbush Ln, Greendale 53129 421-4241

SWAP: Heathkit HW-32 20-mtr SSB Xcvr w/HP-23 AC pwr supply & Xtal calibrator for 2-mtr solid state mobile, HT, or ?? Need not be working but should be repairable. Make an offer! Contact Don, W9AMM, 5973 Sugarbush Ln, Greendale 53129 421-1245

WANTED: Low-cost, one or two freq. 2-mtr FM xcvr for 117 VAC operation, 10 watts or so. Contact Larry, WA9JMO, 7453 W. Thurston, Milw. 53218 464-7449

WANTED: Your old newspapers will be appreciated to help support a field day group. Contact Norm, WB9PCQ, for pick up. 764-5998

FOR SALE: Heathkit DX-60B w/HG-10B VFO, 80 thru 10 mtrs, AM-CW; $100. Contact Greg, WB9PPR 771-1084

FOR SALE: Swan 240 w/Swan ACpwr supply; $175. Central Electronics 20A w/VFO; $50. Clegg FM-27B 2-mtr rig; $270. Contact Stu, W9HI, 2011 Lynn Ln, Rte 6, Burlington 53105 539-2680

FOR SALE: RCA 2-mtr Carfones w/o accessories; $25. Henry Tempo 2-mtr Amplifier Model C130A10; $125. Blower motor; $15. Contact Paul, W9KHO, who is handling the sale of this equipment for the 25/85 Club.

FOR SALE: Drake R4B rec. and T4XB xmtr w/pwr supply, rack adapters & extra final tubes; $650. Contact Tom Rehm, K9PIQ, 1401 Hickory Way, Racine 634-6955

FOR SALE: FM-144, 2-mtr transceiver, synthesized, 15 watts, price open. WANTED: Drake R-4 Series Receiver. Contact Howard Kaufmann, WA9TOP, 963-9172

FOR SALE: VHF Eng. HT-144, modified to correct original design, w/94/94, 31/91, 43/03, 87/27 crystals & charger; $90. Contact Joel Eschmann, K9MLD, Rte 2, Box 177, Lot 73C, Union Grove, 53182 744-6786 (days-Milw) 878-2774 (nites-Union Grove)

WANTED: Inexpensive offset press (10x15 or 11x17 sheet size) to help with newsletter expansion; need not be in A-1 or working condition but should be repairable. Contact Don, W9AMM, 5973 Sugarbush Ln, Greendale 53129 421-1245

HELP WANTED: Volunteers to help with THE HAMATEUR newsletter. We need help in all areas...writing, production, typing, mailing, photography, coordination, drawing, proof reading, etc...you name it, we would appreciate your assistance. Contact Larry, WA9JMO, 464-7449

Sus Nusashi WB9BGJ 2-3
4921 N 58 St
Mil.w., Wisc. 53218

Meeting Notices

31/91.....January 13, 1977
25/85.....January 18, 1977
6 MIC.....January 7, 1977
Ozaukee.....January 8, 1977
07/67.....January 4, 1977
MRAC.....January 13, 1977

the HAMATEUR

EDITOR: Larry McCalvy WA9JMO
7453 W. Thurston Circle
Milwaukee, Wisconsin 53218

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memories at a glance...

Let's take a few minutes and turn back the pages of the log-book. Back to May, 1939, at the AARS - Wisconsin group Milwaukee QSO party. Picture (1) shows (front row) W9AKT, W9ZTP, W9KBT, W9GAH (2nd row) W9ORU, W9CXK, W9ZTO, W9RLB, W9DCU (back row) W9HPG, W9VS, W9SZL, W9KDF, W9WKL, W9IAS, W9SCR. Picture (2) was at the Gettelman's Rathskeller in Milwaukee during the MRAC Jamboree, May 25, 1944. Mayer, W9GVL, Stromberg, W9DC. Scarvaci, W9GIL, and Zander, W9DIJ, are engaged in a game of Sheepshead. Trigger any memories? Pictures from Phil, W9HPG's collection.

73's Larry, WA9JMO